



light source; and

10 based on said relationship, modifying said wavelength spectrum in compensation for said change.

5. The method as in claim 4, wherein said modifying step includes

modulating a first said light signal by an optical filter configured to weight the intensity of said first light signal by wavelength according to a regression vector that identifies a difference between said average spectrum and the wavelength spectrum of said first light signal;

comparing the intensity of said modulated light to an intensity expected if said wavelength spectrum of first light signal equaled said average spectrum; and

adjusting a power input to said light source responsively to said comparison to a degree so that a subsequent said light signal defines a wavelength spectrum that is closer to said average spectrum, as measured by said modulating and comparing steps, than said wavelength spectrum of said first light signal.

6. For a light source in an optical spectroscopy system, a method of compensating for change in a light signal; said method comprising the steps of:

5 applying a light signal from a light source to a measurement sample, wherein the entire wavelength range of said light signal applied to said measurement sample is simultaneously applied to said measurement sample;

10 defining a relationship between change in spectral shape over said wavelength spectrum and change in input power to said light source; and

based on said relationship, relating a change in said spectral shape to a modification in said input power and so modifying said input power in compensation for said change in said spectral shape.